

Planning & Designing Databases on AWS

Course Benefits & Agenda



Overview

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Course Benefits

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Agenda

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Overview

In this three-day ILT, students will learn about the process of planning and designing both relational and nonrelational databases. They will learn the design considerations for hosting databases on Amazon Elastic Compute Cloud (Amazon EC2) and will learn about AWS relational database services including Amazon Relational Database Service (Amazon RDS), Amazon Aurora, and Amazon Redshift. Students will also learn about AWS non-relational database services including Amazon DocumentDB (with MongoDB compatibility), Amazon DynamoDB, Amazon ElastiCache, Amazon Neptune, and Amazon Quantum Ledger Database (Amazon QLDB). By the end of this course, students will be familiar with the planning and design requirements of all of these AWS database services, their pros and cons, and how to know which AWS database service is right for their workloads.

Course Benefits

This course teaches you how to:

- Apply database concepts, database management, and data modeling techniques
- Evaluate hosting databases on Amazon EC2 instances
- Evaluate relational database services (Amazon RDS, Amazon Aurora, and Amazon Redshift) and their features
- Evaluate non-relational database services (Amazon DocumentDB, Amazon DynamoDB, Amazon ElastiCache, Amazon Neptune, and Amazon QLDB) and their features
- Examine how the design criteria apply to each service
- Apply management principles based on the unique features of each service

Agenda

Day 1

Module	Topic
Module 1	Database Concepts and General Guidelines
Module 2	Database Planning and Design
Module 3	Databases on Amazon EC2
Module 4	Purpose-built databases
Module 5	Databases on Amazon RDS
Lab 1	Working with Amazon RDS databases
Module 6	Databases in Amazon Aurora

Day 2

Module	Topic
Lab 2	Working with Amazon Aurora databases
Module 7	Databases in Amazon DocumentDB (with MongoDB compatibility)
Lab 3	Working with Amazon DocumentDB Databases
Module 8	Amazon DynamoDB Tables
Module 9	Working with Amazon DynamoDB Tables
Module 10	Databases in Amazon Neptun

Agenda

Day 3

Module	Topic
Module 11	Databases in Amazon Quantum Ledger Database (Amazon QLDB)
Module 12	Databases in Amazon ElastiCache
Module 13	Data Warehousing in Amazon Redshift
Lab 4	Working with Amazon Redshift Clusters
Module 14	Databases in Amazon Quantum Ledger Database (Amazon QLDB)